

GLOBAL CHANGE EDUCATION PROGRAM

ORIENTATION

June 9 — June 16, 2002

A G E N D A

JUNE 9, 2002 - SUNDAY

10:00 a.m. - 4:00 p.m.: WELCOME to the GCEP ORIENTATION

Lodging:

***Hotel Registration
Desk***

Registration:

Hotel Mezzanine

6:00 - 9:00 p.m.

INITIAL WORKING SESSION

***Gator Room
Food and Beverages***

Introductions

**Milton Constantin, Program Manager-GCEP
Oak Ridge Institute for Science and Engineering**

***A Welcome and Introduction to Florida—the State and the
University***

**Wayne H. Smith, Director
School of Forest Resources and Conservation**

Goals and Objectives for Summer 2002

**Jeffrey Gaffney, Chief Scientist-GCEP
Argonne National Laboratory**

GLOBAL CHANGE EDUCATION PROGRAM

ORIENTATION

JUNE 10, 2002 - MONDAY

Morning Session: University Room

7:30 - 8:30 **Breakfast**

8:30 - 9:20 ***Welcome to SURE Orientation*** Milton Constantin
Program Manager -GCEP
Oak Ridge Institute for Science and Education

Jeffrey Gaffney
Chief Scientist-GCEP
Argonne National Laboratory

9:30-10:30 Forest Atmosphere Interactions: Long-term measurements of carbon budgets and nitrogen deposition at the Harvard Forest
J. William Munger
Department of Earth and Planetary Sciences
Harvard University

10:30-11:00	Break
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11:00-12:00 ***Volcanic Carbon Dioxide and Trace Metal Emissions from Mt. Erebus, Antarctica and Their Contributions to Global Atmospheric Budgets***
Jean Wardell, GCEP-GREF Fellow
Department of Earth & Environmental Science
New Mexico Institute of Mining and Technology

12:00-1:30	Lunch	On Your Own
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GLOBAL CHANGE EDUCATION PROGRAM

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JUNE 10, 2002 - MONDAY

Afternoon Session: University Room

1:30-2:30 ***Terra Incognita – Some Space Shuttle Views of Earth's Land and Air***

Justin Wilkinson
Johnson Space Center
National Atmospheric and Space Administration

2:30-3:00 **Break**

3:00-4:00 ***Dynamics of Climate and Ecosystem Coupling: Abrupt Changes and Multiple Equilibria***

Paul Higgins, GCEP-GREF Fellow
Department of Biological Sciences
Stanford University

4:00-5:00 ***Observations of NMHCs, CO, Ozone, and Aerosol Scatter from a Small Aircraft in the Northeast Pacific during PHOBEA-II***

Heather Price, GCEP-GREF Fellow
Department of Chemistry
University of Washington

DAY ONE ENDS

GLOBAL CHANGE EDUCATION PROGRAM

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JUNE 11, 2002 - TUESDAY

Morning Session: University Room

7:30-8:30 Breakfast

9:00-9:30 ***Overview of U.S. Department of Energy, Atmospheric
Radiation Program (ARM)***

Robert Ellingson
Department of Meteorology
Florida State University

9:30-10:30 ***Research on Measurement, Calculation and Analysis of
Atmospheric Radiation Quantities***

Robert Ellingson
Department of Meteorology
Florida State University

10:30-11:00 Break

11:00- 12:00 ***Water, Water Everywhere, But Not a Drop to Drink --
The Global Impacts of Fresh Water***

Jeffrey Gaffney, Chief Scientist-GCEP
Argonne National Laboratory

12:00-1:30 Lunch

On Your Own

GLOBAL CHANGE EDUCATION PROGRAM

ORIENTATION

JUNE 11, 2002 - TUESDAY

Afternoon Session: University Room

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|------------------|--|
| 1:30-2:30 | <i>Integrated Assessment of Abrupt Climate Change and Climatic Variability</i>
Michael Mastrandrea, GCEP-GREF Fellow
Department of Biological Sciences
Stanford University |
| 2:30-3:00 | Break |
| 3:00-4:30 | <i>G1 Aircraft, EMSL</i>
Nancy Marley &
Jeff Gaffney
Argonne National Laboratory |
| 4:00-5:00 | Discussion |

DAY TWO ENDS

GLOBAL CHANGE EDUCATION PROGRAM

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JUNE 12, 2002 - WEDNESDAY

7:30-8:30	Breakfast	On Your Own
8:45	Board Vans	
9:00	Depart from Holiday Inn	

FIELD TRIP

9:30-12:00 -	<i>AmeriFlux Site – Alachua County</i>	Timothy A. Martin School of Forest Resources and Conservation University of Florida
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12:00	Lunch	The Austin Cary Memorial Forest Conference Center Box Lunch Three Angels Catering
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1:30 –4:00	<i>Payne’s Prairie</i>
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and

Research Sites on University of Florida Campus

DAY THREE ENDS

GLOBAL CHANGE EDUCATION PROGRAM

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JUNE 13, 2002 - THURSDAY

Morning Session: University Room

7:30-8:30.	Breakfast	
8:30-9:15	<i>Recent U.S. Research in Global Environmental Change</i>	Ruth Reck, Director National Institute for Global Environmental Change (NIGEC)
9:15-10:00	<i>Large Eddy Simulation of Canopy-Atmosphere Exchange of CO₂: Toward Development of a Numerical Laboratory</i>	John Albertson Department of Civil and Environmental Engineering Duke University
10:00-10:30	Break	
10:30-11:15	<i>Canopy Conductance-Constrained CO₂ Assimilation (4C-A) and Carbon Allocation in Pine Forest Under Ambient and Elevated CO₂ Atmosphere</i>	Ram Oren Environmental Sciences and Policy Division Duke University
11:15 – 12:00	<i>Impacts of Environmental Stress on Carbon and Water Exchange of Flatwoods Pine Forests in Florida</i>	Timothy A. Martin School of Forest Resources and Conservation University of Florida
12:00-1:30	Lunch	On Your Own

GLOBAL CHANGE EDUCATION PROGRAM ORIENTATION

JUNE 13, 2002 - THURSDAY

Afternoon Session: University Room

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| 1:30-2:15 | <i>The Effects of Elevated CO₂ on Plant Herbivore Interactions</i>
Peter Stiling
Department of Biology
University of South Florida |
| 2:15-3:00 | <i>Transport Mechanisms of Trace Gases Over a Managed
Pine Plantation</i>
Monique Leclerc
Department of Crop and Soil Sciences
University of Georgia |
| 3:00-3:30 | Break |
| 3:30-4:15 | <i>The Secret Life of Belowground Carbon</i>
Michael A. Davis
Department of Biological Sciences
University of Southern Mississippi |
| 4:15 – 5:00 | Discussion |

DAY FOUR ENDS

GLOBAL CHANGE EDUCATION PROGRAM

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June 14, 2002 - FRIDAY

Morning Session: University Room

7:30-8:30 Breakfast

9:00-9:30 ***Terrestrial Carbon Research at DOE***

David F. Karnosky
School of Forestry and Wood Products
Michigan Technological University

9:30 10:30- ***Impacts of Elevated CO₂ and CO₃ on Forest Trees:
Results from the Aspen FACE Experiment***

David F. Karnosky
School of Forestry and Wood Products
Michigan Technological University

10:30- 11:00 Break

11:00-12:00 ***Soil Carbon Storage in Tropical Secondary Forests***

Erika Marin-Spiotta, GCEP-GREF Fellow
Ecosystem Sciences Division
University of California at Berkeley

12:00-1:30 Lunch

On Your Own

GLOBAL CHANGE EDUCATION PROGRAM

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JUNE 14, 2002 - FRIDAY

Afternoon Session: University Room

1:30 – 2:30

Climate Response of Range Margin Trees: Implications for Species Distributions and Carbon Uptake

Neil Pederson, GCEP GREF Fellow
Tree-Ring Laboratory
Lamont-Doherty Earth Observatory

2:30-3:30

Photoelectron Emission Microscopy Studies of Carbon Overturn in Organic Lake Sediments from the Alaskan Coastal Plain

Heidi Bialk, GCEP-GREF Fellow
Environmental Toxicology Center
University of Wisconsin at Madison

3:30-4:00

Break

4:00-5:00

Redox and the Nitrogen Cycle: How Oxidic/Anoxic Variability Affects Nitrous Oxide Production and Nitrogen Cycling in a Wet Tropical Soil

Jennifer Pett-Ridge, GCEP-GREF Fellow
Environmental Science and Policy Management
University of California at Berkeley

DAY FIVE ENDS

GLOBAL CHANGE EDUCATION PROGRAM

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June 15, 2002 -SATURDAY

Morning Session: University Room

7:30-8:30. Breakfast

8:30-9:30 ***Overview ACP/EMP***

Nancy Marley &
Jeffrey Gaffney
Argonne National Laboratory

9:30-10:30 ***Alkyl Nitrates and Earth System Science – The Big Picture***
Elizabeth Dahl, GCEP-GREF Fellow
Department of Earth System Sciences
University of California at Irvine

10:30-11:00 Break

11:00- 12:00 ***VOC Measurements at a Coastal Site in Northern California:
Results from the Intercontinental Transport and Chemical
Transformation (ITCT) 2002 Spring Intensive***
Dylan Millet, GCEP-GREF Fellow
Department of Ecosystems and Policy Management
University of California at Berkeley

12:00-1:30 Lunch On Your Own

SPECIAL NOTE: Remember to make arrangements with the Desk Attendant
for shuttle service to the airport on Sunday.

GLOBAL CHANGE EDUCATION PROGRAM

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JUNE 15, 2002 - SATURDAY

Afternoon Session: University Room

1:30-5:00 ***Workshop ---- The How to Prepare Resumes, Abstracts, Papers
and Proposals (break time will be included)***
Nancy Marley & Jeffrey Gaffney
Argonne National Laboratory

Evening Session

6:30 – 9:00 ***FINAL WORKING SESSION*** ***The Gator Room
Food and Beverages***

Recognitions and Presentation of Certificates

Keynote Address --

Global Change After September 11, 2001
Jeff Gaffney, Chief Scientist--GCEP
Argonne National Laboratory

DAY SIX AND ORIENTATION ENDS

GLOBAL CHANGE EDUCATION PROGRAM
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JUNE 16, 2002 - SUNDAY

Breakfast

On Your Own

**Travel to Your Summer Undergraduate Research
Experience Research Facility**

HAVE A GREAT SUMMER!

See you in August at Argonne National Laboratory